

WHAT IS CLAIMED IS:

1. An image processing apparatus comprising:

a detector for detecting, on the basis of image data of an original image including facial region image data in which a face of a person is stored, a position corresponding to a top-of-head portion and positions corresponding to eye portions of the person in said original image; and

a component for setting, on the basis of the detected positions corresponding to the top-of-head portion and the eye portions of the person in the original image, a trimming region for said original image to position said facial region at a predetermined position within the trimming region at a predetermined size ratio.

2. The image processing apparatus according to claim 1, further comprising;

a storage for storing an appropriate value of a size ratio, along a vertical direction, of

an overhead region, the overhead region being above said facial region along the vertical direction of a subject in the original image,

said facial region, and

an under-jaw region, the under-jaw region being below said facial region along the vertical direction,

wherein said component for setting estimates, on the basis of the detected position corresponding to the top-of-head portion and the eye portions of the person in the original image, a position corresponding to a chin of the person in the original image, and, on the basis of a distance on the original image between the position corresponding to the top-of-head portion and the position corresponding to the chin, sets a position and a size of the trimming region along said vertical direction such that the size ratio along said vertical direction of said overhead region, said facial region and said under-jaw region in the trimming region matches the appropriate value of the size ratio stored in said storage.

3. The image processing apparatus according to claim 1, wherein said detector detects positions corresponding to both eye portions of the person in said original image, said storage stores information that represents an aspect ratio of the trimming region, and said component for setting sets a position corresponding to a substantial center along a horizontal direction perpendicular to said vertical

direction in the positions corresponding to the eye portions as a central position of the trimming region along said horizontal direction, and on the basis of the size of the trimming region along said vertical direction, said component for setting sets a position and a size of the trimming region along said horizontal direction such that the aspect ratio of the trimming region matches the aspect ratio represented by the information stored in said storage.

4. The image processing apparatus according to claim 3 further comprising a selector for selecting a desired print size from many predetermined types of print sizes as a size of a recorded image when an image region corresponding to the set trimming region in the original image is recorded onto a recording material;

wherein said storage stores information that represents an appropriate value of said size ratio and an aspect ratio of said trimming region, with the appropriate value and the aspect ratio being corresponded to the many types of print sizes, and said component for setting sets the position and the size of the trimming region by using the information that represents the appropriate value of

said size ratio and the aspect ratio corresponded to a print size selected by the selector and stored in the storage.

5. The image processing apparatus according to claim 1, further comprising:

a display controller for overlaying the trimming region set by said component for setting on the original image and displaying the same on a display; and

a corrector for correcting at least one of the position and the size of the trimming region set by said component for setting,

wherein when correction of at least one of the position and the size of the trimming region is instructed by said corrector, said component for setting corrects, in accordance with the instruction, at least one of the position and the size of the trimming region.

6. The image processing apparatus according to claim 1, further comprising:

a designator for designating text information to be recorded on a recording material; and

a recorder for recording, as an image onto a recording material, an image region corresponding to the trimming region in the original image set by said component for

setting, and for recording the text information designated by said designator on the same recording material.

7. The image processing apparatus according to claim 6, wherein said text information is information that represents at least one of types of recorded images and print sizes with text.

8. An image processing method comprising the steps of:

(a) detecting, on the basis of image data of an original image including facial region image data that stores a face of a person, a position corresponding to a top-of-head portion and positions corresponding to eye portions of the person in said original image; and

(b) setting, on the basis of the detected positions corresponding to the top-of-head portion and the the eye portions of the person in the original image, a trimming region for said original image to position said facial region at a predetermined position within the trimming region at a predetermined size ratio.

9. The image processing method according to claim 8, further comprising the step of:

(c) storing an appropriate value of a size ratio, along a vertical direction, of

an overhead region, the overhead region being above said facial region along the vertical direction of a subject in the original image,

said facial region, and

an under-jaw region, the under-jaw region being below said facial region along the vertical direction;

wherein in said step (b), on the basis of the detected positions corresponding to the top-of-head portion and the eye portions of the person in the original image, a position corresponding to a chin of the person in the original image is estimated, and on the basis of the distance in the original image between the position corresponding to the top-of-head portion and the position corresponding to the chin, the position and the size of the trimming region along the vertical direction is set such that the size ratio along said vertical direction of said overhead region, said facial region and said under-jaw region in the trimming region matches the appropriate value of the size ratio stored in said step (c).

10. The image processing method according to claim 8, wherein in said step (a), the positions corresponding to the eye portions of the person in said original image

are detected, in said step (c), information that represents an aspect ratio of the trimming region is stored and in step (b), a position corresponding to a substantial center along a horizontal direction perpendicular to said vertical direction in the positions corresponding to the eye portions detected in said step (a) is set as a central position of the trimming region along said horizontal direction, and on the basis of the size of the trimming region along said vertical direction, a position and a size of the trimming region along said horizontal direction is set such that the aspect ratio of the trimming region matches the aspect ratio represented by the information stored in said step (c).

11. The image processing method according to claim 10, further comprising the step of:

(d) selecting a desired print size from many predetermined types of print sizes as a size of a recorded image when an image region corresponding to the set trimming region in the original image is recorded onto a recording material;

wherein in said step (c), the information that represents an appropriate value of said size ratio and an aspect ratio of said trimming region is stored, with the

appropriate value and the aspect ratio being corresponded to the many types of print sizes, and in said step (b), the position and the size of the trimming region is set by using the information that represents the appropriate value of said size ratio and the aspect ratio corresponded to a print size selected in said step (d) and stored in said step(c).

12. The image processing method according to claim 8, further comprising the steps of:

(e) overlaying the trimming region set in said step (b) on the original image and displaying the same on a display; and

(f) correcting at least one of the position and the size of the trimming region set in said step (b)

wherein in said step (b), when at least one of the position and the size of the trimming region is instructed to be corrected in said step (f), at least one of the position and the size of the trimming region is corrected in accordance with the instruction.

13. The image processing method according to claim 8, further comprising the steps of:

(g) designating text information to be recorded on a recording material; and

(h) recording, as an image onto a recording material, an image region in the trimming region in the original image set in said step (b) and recording the text information designated in said step (g) on the same recording material.

14. The image processing method according to claim 13, wherein said text information is information that represents at least one of types of recorded images and print sizes with text.

15. A recording medium having a program stored therein for causing a computer to effect processing, said processing comprises the steps of:

(a) detecting, on the basis of image data of an original image including facial image data that stores a face of a person, a position corresponding to a top-of-head portion and positions corresponding to eye portions of the person in said original image; and

(b) setting, on the basis of the detected position corresponding to the top-of-head portion and the the eye portions of the person in the original image, a trimming region for said original image to position said facial region at a predetermined position with the trimming region at a predetermined size ratio.

16. The recording medium according to claim 15,
wherein said processing further comprises the step of:

(c) storing an appropriate value of a size ratio,
along a vertical direction, of

an overhead region, the overhead region being
above said facial region along the vertical direction
of a subject in the original image,

said facial region, and

an under-jaw region, the under-jaw region being
below said facial region along the vertical
direction;

wherein in said step (b), on the basis of the detected
positions corresponding to the top-of-head portion and the
eye portions of the person in the original image, a position
corresponding to a chin of the person in the original image
is estimated, and on the basis of the distance in the
original image between the position corresponding to the
top-of-head portion and the position corresponding to the
chin, the position and the size of the trimming region along
the vertical direction is set such that the size ratio along
said vertical direction of said overhead region, said
facial region and said under-jaw region in the trimming

region matches the appropriate value of the size ratio stored in said step (c).

17. The recording medium according to claim 15, wherein in said step (a), the positions corresponding to the eye portions of the person in said original image are detected, in said step (c), information that represents an aspect ratio of the trimming region is stored and in step (b), a position corresponding to a substantial center along a horizontal direction perpendicular to said vertical direction in the positions corresponding to the eye portions detected in said step (a) is set as a central position of the trimming region along said horizontal direction, and on the basis of the size of the trimming region along said vertical direction, a position and a size of the trimming region along said horizontal direction is set such that the aspect ratio of the trimming region matches the aspect ratio represented by the information stored in said step (c).

18. The recording medium according to claim 17, wherein said processing further comprises the step of:

(d) selecting a desired print size from many predetermined types of print sizes as a size of a recorded image when an image region corresponding to the set trimming

region in the original image is recorded onto a recording material;

wherein in said step (c), the information that represents an appropriate value of said size ratio and an aspect ratio of said trimming region is stored, with the appropriate value and the aspect ratio being corresponded to the many types of print sizes, and in said step (b), the position and the size of the trimming region is set by using the information that represents the appropriate value of said size ratio and the aspect ratio corresponded to a print size selected in said step (d) and stored in said step (c).

19. A recording medium according to claim 15, wherein said processing further comprises the steps of:

(e) overlaying the trimming region set in said step (b) on the original image and displaying the same on a display; and

(f) correcting at least one of the position and the size of the trimming region set in said step (b)

wherein in said step (b), when at least one of the position and the size of the trimming region is instructed to be corrected in said step (f), at least one of the position and the size of the trimming region is corrected in accordance with the instruction.

20. The recording medium according to claim 15,
wherein said processing further comprises the steps of:

(g) designating text information to be recorded on
the recording material; and

(h) recording, as an image onto a recording material,
an image region in the trimming region in the original image
set in said step (b) and recording the text information
designated in said step (g) on the same recording material.